

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/535, 128C  
Source: IFW  
Date Processed by STIC: 11/22/2006

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

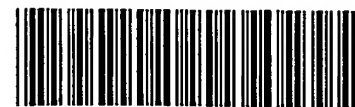
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/535,128C</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u>    </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u>    </u> Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.	
3 <u>    </u> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.	
4 <u>    </u> Non-ASCII	The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. Please <b>ensure your subsequent submission is saved in ASCII text</b> .	
5 <u>    </u> Variable Length	Sequence(s) <u>    </u> contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u>    </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u>    </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
7 <u>    </u> Skipped Sequences (OLD RULES)	Sequence(s) <u>    </u> missing. If intentional, please insert the following lines for <b>each</b> skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to <b>include</b> the skipped sequences.	
8 <u>    </u> Skipped Sequences (NEW RULES)	Sequence(s) <u>    </u> missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u>    </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is <b>MANDATORY</b> if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <u>    </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 <u>    </u> Use of <220>	<del>Sequence(s) <u>    </u> missing the &lt;220&gt; "Feature" and associated numeric identifiers and responses. Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if &lt;213&gt; "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in &lt;220&gt; to &lt;223&gt; section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules</del>	
12 <u>    </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u>    </u> Misuse of n/Xaa	"n" can <b>only</b> represent a single <u>nucleotide</u> ; "Xaa" can <b>only</b> represent a single <u>amino acid</u>	



IFWO

## RAW SEQUENCE LISTING

DATE: 11/22/2006

PATENT APPLICATION: US/10/535,128C

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

3 <110> APPLICANT: Collins, et. al  
 5 <120> TITLE OF INVENTION: CIS/Trans Riboregulators  
 7 <130> FILE REFERENCE: 0079571-0094  
 9 <140> CURRENT APPLICATION NUMBER: 10/535,128C  
 10 <141> CURRENT FILING DATE: 2005-05-16  
 12 <160> NUMBER OF SEQ ID NOS: 59  
 14 <170> SOFTWARE: PatentIn version 3.2  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 11  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Artificial  
 21 <220> FEATURE:  
 22 <223> OTHER INFORMATION: Consensus sequence  
 24 <400> SEQUENCE: 1  
 25 gccgaccaug c  
 28 <210> SEQ ID NO: 2  
 29 <211> LENGTH: 18  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Artificial  
 33 <220> FEATURE:  
 34 <223> OTHER INFORMATION: Nuclear Acid sequence  
 36 <400> SEQUENCE: 2  
 37 aggagggttt ttaccaug  
 40 <210> SEQ ID NO: 3  
 41 <211> LENGTH: 19  
 42 <212> TYPE: DNA  
 43 <213> ORGANISM: Artificial  
 45 <220> FEATURE:  
 46 <223> OTHER INFORMATION: Cis-Repressive  
 48 <400> SEQUENCE: 3  
 49 ggacgcactg accgaattc  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 20  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: Artificial  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Cis-Repressive  
 60 <400> SEQUENCE: 4  
 61 ctacctttct cctctttaat  
 64 <210> SEQ ID NO: 5  
 65 <211> LENGTH: 18  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Artificial

Does Not Comply  
Corrected Diskette Needed  
Cp8-1,2,3,4,5

11

What is the source  
of genetic material?  
See Item 11 on  
Error Summary  
sheet).

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128C

DATE: 11/22/2006

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

69 <220> FEATURE:  
70 <223> OTHER INFORMATION: Cis-Repressive  
72 <400> SEQUENCE: 5  
73 ttctctagtc ctccttat 18  
76 <210> SEQ ID NO: 6  
77 <211> LENGTH: 19  
78 <212> TYPE: DNA  
79 <213> ORGANISM: Artificial  
81 <220> FEATURE:  
82 <223> OTHER INFORMATION: Cis-Repressive  
84 <400> SEQUENCE: 6  
85 ctacctttct cctctagga 19  
88 <210> SEQ ID NO: 7  
89 <211> LENGTH: 19  
90 <212> TYPE: DNA  
91 <213> ORGANISM: Artificial  
93 <220> FEATURE:  
94 <223> OTHER INFORMATION: Cis-Repressive  
96 <400> SEQUENCE: 7  
97 ctacctatct gctcttgaa 19  
100 <210> SEQ ID NO: 8  
101 <211> LENGTH: 19  
102 <212> TYPE: DNA  
103 <213> ORGANISM: Artificial  
105 <220> FEATURE:  
106 <223> OTHER INFORMATION: Cis-Repressive  
108 <400> SEQUENCE: 8  
109 ctaccattca cctcttgga 19  
112 <210> SEQ ID NO: 9  
113 <211> LENGTH: 16  
114 <212> TYPE: DNA  
115 <213> ORGANISM: Artificial  
117 <220> FEATURE:  
118 <223> OTHER INFORMATION: Cis-Repressive  
120 <400> SEQUENCE: 9  
121 ctaccattca cctgga 16  
124 <210> SEQ ID NO: 10  
125 <211> LENGTH: 7  
126 <212> TYPE: DNA  
127 <213> ORGANISM: Artificial  
129 <220> FEATURE:  
130 <223> OTHER INFORMATION: Cis-Repressive  
132 <400> SEQUENCE: 10  
133 tttgggt 7  
136 <210> SEQ ID NO: 11  
137 <211> LENGTH: 15  
138 <212> TYPE: DNA  
139 <213> ORGANISM: Artificial  
141 <220> FEATURE:

*Same Error*

## RAW SEQUENCE LISTING

DATE: 11/22/2006

PATENT APPLICATION: US/10/535,128C

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

142 <223> OTHER INFORMATION: Cis-Repressive

144 <400> SEQUENCE: 11

145 attaaagagg agaaa 15

148 <210> SEQ ID NO: 12

149 <211> LENGTH: 42

150 <212> TYPE: DNA

151 <213> ORGANISM: Artificial

153 <220> FEATURE:

154 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

156 <400> SEQUENCE: 12

157 ggagcactga ccgaattcat taaagaggag aaaggtacca tg 42

160 <210> SEQ ID NO: 13

161 <211> LENGTH: 51

162 <212> TYPE: DNA

163 <213> ORGANISM: Artificial

165 <220> FEATURE:

166 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

168 <400> SEQUENCE: 13

169 ctacctttct cctctttaat tttgggtatt aaagaggaga aaggtaccat g 51

172 <210> SEQ ID NO: 14

173 <211> LENGTH: 47

174 <212> TYPE: DNA

175 <213> ORGANISM: Artificial

177 <220> FEATURE:

178 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

180 <400> SEQUENCE: 14

181 ctctagtcct ccttattttg ggtattaaag aggagaaagg taccatg 47

184 <210> SEQ ID NO: 15

185 <211> LENGTH: 50

186 <212> TYPE: DNA

187 <213> ORGANISM: Artificial

189 <220> FEATURE:

190 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

192 <400> SEQUENCE: 15

193 ctacctttct cctctaggat ttgggtatta aagaggagaa aggtaccatg 50

196 <210> SEQ ID NO: 16

197 <211> LENGTH: 50

198 <212> TYPE: DNA

199 <213> ORGANISM: Artificial

201 <220> FEATURE:

202 <223> OTHER INFORMATION: Nuclear Acid sequence

204 <400> SEQUENCE: 16

205 ctacctatct gctcttgaat ttgggtatta aagaggagaa aggtaccatg 50

208 <210> SEQ ID NO: 17

209 <211> LENGTH: 50

210 <212> TYPE: DNA

211 <213> ORGANISM: Artificial

213 <220> FEATURE:

214 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

## RAW SEQUENCE LISTING

DATE: 11/22/2006

PATENT APPLICATION: US/10/535,128C

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

216 <400> SEQUENCE: 17  
217 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg 50  
220 <210> SEQ ID NO: 18  
221 <211> LENGTH: 50  
222 <212> TYPE: DNA  
223 <213> ORGANISM: Artificial  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs  
228 <400> SEQUENCE: 18  
229 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg 50  
232 <210> SEQ ID NO: 19  
233 <211> LENGTH: 70  
234 <212> TYPE: DNA  
235 <213> ORGANISM: Artificial  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: Construct Sequence  
240 <400> SEQUENCE: 19  
241 acacccaaat taaaggaggag aaaggtagtg gtgggtaatg aaaattaact tactactacc 60  
243 ttttcttaga 70  
246 <210> SEQ ID NO: 20  
247 <211> LENGTH: 62  
248 <212> TYPE: DNA  
249 <213> ORGANISM: Artificial  
251 <220> FEATURE:  
252 <223> OTHER INFORMATION: Construct Sequence  
254 <400> SEQUENCE: 20  
255 acgccccaat aaggaggata gagtggtagg taatgaaaat taacttacta cttagtttta 60  
257 ga 62  
260 <210> SEQ ID NO: 21  
261 <211> LENGTH: 69  
262 <212> TYPE: DNA  
263 <213> ORGANISM: Artificial  
265 <220> FEATURE:  
266 <223> OTHER INFORMATION: Construct Sequence  
268 <400> SEQUENCE: 21  
269 acacccaaat cctagggaga atggtagtgg tgggtaatga aaattaactt actactactt 60  
271 tttcataga 69  
274 <210> SEQ ID NO: 22  
275 <211> LENGTH: 67  
276 <212> TYPE: DNA  
277 <213> ORGANISM: Artificial  
279 <220> FEATURE:  
280 <223> OTHER INFORMATION: Construct Sequence  
282 <400> SEQUENCE: 22  
283 acacccaaat tatgagcaga ttggtagtgg tgggtaatga aaattaactt actactactt 60  
285 tcttaga 67  
288 <210> SEQ ID NO: 23  
289 <211> LENGTH: 71  
290 <212> TYPE: DNA

*Same Error*

## RAW SEQUENCE LISTING

DATE: 11/22/2006

PATENT APPLICATION: US/10/535,128C

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

291 <213> ORGANISM: Artificial  
293 <220> FEATURE:  
294 <223> OTHER INFORMATION: Construct Sequence  
296 <400> SEQUENCE: 23  
297 acccaaatcc aggaggtgat tggtagtggt ggtaaataa aattaactta ctactaccat 60  
299 atatctctag a 71  
302 <210> SEQ ID NO: 24  
303 <211> LENGTH: 71  
304 <212> TYPE: DNA  
305 <213> ORGANISM: Artificial  
307 <220> FEATURE:  
308 <223> OTHER INFORMATION: Construct Sequence  
310 <400> SEQUENCE: 24  
311 acccaaatcc aggaggtgaa tggtagtggt ggtaaataa aattaactta ctactaccat 60  
313 atatctctag a 71  
316 <210> SEQ ID NO: 25  
317 <211> LENGTH: 71  
318 <212> TYPE: DNA  
319 <213> ORGANISM: Artificial  
321 <220> FEATURE:  
322 <223> OTHER INFORMATION: Construct Sequence  
324 <400> SEQUENCE: 25  
325 acccaaatcc aagaggtgat tggtagtggt ggtaaataa aattaactta ctactaccat 60  
327 atatctctag a 71  
330 <210> SEQ ID NO: 26  
331 <211> LENGTH: 76  
332 <212> TYPE: DNA  
333 <213> ORGANISM: Artificial  
335 <220> FEATURE:  
336 <223> OTHER INFORMATION: Construct Sequence  
338 <400> SEQUENCE: 26  
339 acccaaatcc aaagaggtga atggtaagt ggtggtaaat gaaaattaac ttactactac 60  
341 catatattct ctaaga 76  
344 <210> SEQ ID NO: 27  
345 <211> LENGTH: 71  
346 <212> TYPE: DNA  
347 <213> ORGANISM: Artificial  
349 <220> FEATURE:  
350 <223> OTHER INFORMATION: Construct Sequence  
352 <400> SEQUENCE: 27  
353 acccaaatcc aggaggtgat tggtagtggt ggtaaataa aattaactta ctaaaatcgg 60  
355 acatctctag a 71  
358 <210> SEQ ID NO: 28  
359 <211> LENGTH: 75  
360 <212> TYPE: DNA  
361 <213> ORGANISM: Artificial  
363 <220> FEATURE:  
364 <223> OTHER INFORMATION: Construct Sequence  
366 <400> SEQUENCE: 28

*Same Error*

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/535,128C

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Input Set : A:\BU-0094.ST25.txt  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51

Seq#:52,53,54,55,56,57,58,59



**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/535,128C

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TIME: 11:26:27

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw